

MEMORANDUM

August 30, 1958.

From: P. M. Kavanagh

To: Mr. A. M. Nordale

SUMMARY OF RESERVES ON LAST CHANCE CREEK

The following is a summary of the results of the drill prospecting program carried out on Last Chance during this summer of 1958.

One gasoline-driven Kirk-Hillman drill was employed, and worked one shift per day. Drilling commenced on May 18 and finished on August 8. During that period 40 holes, totalling 1459 feet, were drilled at an average of 18 feet per drill shift. The footage was very low because of 1) numerous breakdowns of the drill, 2) a relatively inexperienced drilling crew, and 3) a high proportion of thawed ground.

Drilling was started on Claim 9 Above the Mouth of Last Chance Creek, ie. approximately 3900 feet up from the Hunker Creek base line. In 1937 a single line of 5 holes, 200 feet apart, was drilled through Claims 1 and 2 Above the Mouth of the creek. This season's program did not commence at Claim 3 Above the Mouth because 1) Claims 3, 4, 5, 6, and 8 are adversely held, and 2) the ground included in Claims 3 to 8 Above the Mouth is covered by thick hydraulic tailings.

A total of 8 lines of holes were drilled in the 4500 foot long section of the creek between Claim 9 Above the Mouth and Claim 3A Above Discovery inclusive. The first 6 lines were drilled 500 feet apart; the last 2 lines, 1000 feet apart. On each of the lines the holes were drilled at 100 foot centres. In that section of the creek drilled, Claims 2A Below Discovery and 1 Above Discovery are adversely held by a Mr. Abraham.

The following features characterize the section of the creek drilled:

1. 67% of the total gold indicated in the 2500 foot long section between Claim 9 Above the Mouth and the Discovery Claim occurs in the 1000 foot long section from Claim 9 Above the Mouth to Claim 3 Below Discovery.
2. The possible dredging section is narrow, averaging only 260 feet wide.
3. 63% of the holes drilled through thawed ground.
4. It would be very difficult to do any stripping, mainly because of several large concentrations of hydraulic tailings.
5. The bedrock penetrated by almost 100% of the holes consists of a yellow to grey, sticky clay containing small, relatively undecomposed rock fragments.

6. Almost none of the holes encountered any true gravel section; commonly there is a section of creek sand between the muck and decomposed bed-rock.
7. There are numerous indications of old workings.

The following is a summary of the drilling results obtained in the 2500 foot long section between Claim 9 Above the Mouth and the Discovery Claim, ie. the section which was drilled by the 6 lines 500 feet apart:

Total Area	774,025 sq. ft.
Total cu. yds. of Muck	712,769
Average depth of Muck	24.9 ft.
Total cu. yds. of Dredging Section (D.S.)	330,543
Average depth of D.S.	11.5 ft.
Total cu. yds. of Muck and D.S.	1,043,312
Average depth of Muck and D.S.	36.4 ft.
Gross Value (Au. at \$20.67)	\$204,462
(Au. at \$35.00)	\$345,541
Cents per cu. yd. value of Muck and D.S. (Au. at \$20.67)	19.6
(Au. at \$35.00)	33.1

The yardage contained within the lower 1000 feet of the 2500 foot long section described above contains \$232,500 (67% of the total) at an average grade of 43.6¢ per cu. yd. The yardage in the remaining 1500 foot section contains \$113,100 at an average grade of only 22.0¢ per cu. yd.

The best 200 foot width in the line drilled in Claim 2 Above Discovery, ie. 1000 feet above the Discovery Claim, has a value of 28.2¢ per cu. yd. of Muck and D.S. (Au. at \$35.00).

The best 200 foot width in the line drilled in Claim 3A Above Discovery, ie. 1000 feet above Claim 2 Above Discovery, has a value of only 10.8¢ per cu. yd. of Muck and D.S. (Au. at \$35.00).

The appended data pertain to each of the holes drilled. A plan showing the locations and values of the holes is in the envelop.

Dredge No. 11 is presently digging in Lower Last Chance Creek. To date the yardage dug has averaged approximately 50 cents per cu. yd. at \$35.00 Au. It is intended that this season the dredge will completely dig that portion of the creek between the mouth and halfway through Claim 3 Above the Mouth.

A 200 - 250 foot wide strip is to be left in Hunker Creek, probably along the left limit, for Dredge No. 11 to dredge back upstream to the

mouth of Last Chance Creek after the dredge will have progressed to the downstream limit of its reserve in Hunker Creek. If conditions warrant, Dredge No. 11 will then be in a position to re-advance up Last Chance after passing through the tailings it is presently depositing.

Paul M. Kavanagh
Paul M. Kavanagh,
Assistant Manager.

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RAJ. CONTENT

DATA FROM 1958 DRILLING PROGRAM ON LAST CHANCE CREEK

Section No. 1: drilled in Claim 9 Above Mouth of Last Chance Creek, ie. approximately 3900 ft. up from the Hunker Creek base line. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
6	41	28	5	8	11	79.38	F	1186	1158	1153
4	37	21	13	3	15	72.82	F	1171	1150	1137
2	31	20	6	5	10	45.02	T	1169	1149	1143
1	31	24	4	3	7	84.60	T	1168	1144	1140
3	61	13	-	48	-	-	F-T	1168	-	1155

Section No. 2: drilled in Claim 5 Below Discovery, ie. approximately 500 feet above Section No. 1. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
6	4	-	-	4	-	-	-	1194	-	1194
4	31	21	6	4	10	96.43	F to 29'	1180	1159	1153
2	32	18	8	6	13	455.81	T	1179	1161	1153
1	50	26	12	12	14	7.91	T	1185	1159	1147
3	53	40	5	8	11	300.60	T	1198	1158	1153
5	59	50	5	4	8	39.60	T	1210	1160	1155

Section No. 3: drilled in Claim 3 Below Discovery, ie. approximately 500 feet above Section No. 2. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
6	53	43	-	10	8	6.07	F	1214	-	1171
4	50	23	10	17	24	4.85	F	1197	1174	1164
2	37	17	8	12	15	103.07	F	1188	1171	1163
1	36	12	11	13	12	2.65	T	1189	1177	1166
3	50	26	12	12	16	6.91	T	1198	1172	1160
5	54	47	1	6	5	107.50	T	1209	1162	1161

Section No. 4: drilled in Claim 2 Below Discovery, ie. approximately 500 feet above Section No. 3. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
4	22	10	-	12	11	3.38	F	1220	-	1210
2	31	14	13	4	15	161.85	F	1205	1191	1178
1	31	21	2	8	8	84.14	F	1201	1180	1178
3	29	13	10	6	14	5.64	F to 11'	1199	1186	1176
5	32	18	6	8	12	19.40	F	1202	1184	1178
7	32	23	4	5	9	11.42	F	1208	1185	1181

Section No. 5: drilled in Claim 1 Below Discovery, ie. approximately 500 feet above Section No. 4. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
4	56	44	8	4	11	24.47	T	1241	1197	1189
2	49	34	8	7	13	26.13	T	1227	1193	1185
1	34	21	8	5	11	139.61	T	1214	1193	1185
3	24	14	8	2	8	15.82	T	1205	1191	1183

Section No. 6: drilled in Claim Discovery, ie. approximately 500 feet above Section No. 5. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
2	37	25	6	6	10	22.92	T	1224	1199	1193
1	27	14	8	5	11	61.16	F to 17'	1213	1199	1191
3	33	21	9	3	10	43.11	F	1225	1204	1195

Section No. 7: drilled in Claim 2 Above Discovery, ie. approximately 1000 feet above Section No. 6. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
2	36	23	4	9	-	-	F	1239	1216	1212
1	15	5	4	7	8	54.60	T	1231	1226	1222
3	18	8	5	5	9	74.68	T	1226	1218	1213
5	30	21	1	8	7	75.58	F to 15'	1239	1218	1217
7	36	28	5	3	7	10.16	F	1249	1221	1216

Section No. 8: drilled in Claim 3A Above Discovery, is. approximately 1000 feet above Section No. 7. The holes are 100 feet apart.

Hole No.	Depths					Cents per cu. yd. D.S. (\$35.00 Au.)	D.S. Thawed or Frozen	Elevations		
	Total	Muck	Gravel	B.R.	D.S.			Surf.	GR.	B.R.
2	54	49	3	2	3	34.67	T	1287	1238	1235
1	42	30	4	8	10	27.65	T	1273	1243	1239
3	32	22	5	5	8	43.55	T	1263	1241	1236
5	27	11	12	4	15	16.36	T	1255	1244	1232
7	22	11	6	5	9	25.48	T	1239	1228	1222



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DATE March 2014